

Input Set + A:\02-0013.st25.txt
Output Set: N:\CRF3\06172002\J043774B.raw

3	<110>	> APPLI	CANT	: Un:	iver	sity	of :	Illi	nois	at (	Chic	ago						
4		Sharm	a, A	run										•	•			
5	,	Hoffm							•					•				
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		laa aca Lys Thr															90	
33		-	. 20	. Der	Ser	Gry	. 116	25		пту	· ·	DCI	30	ASII	1115			
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37		35		001			40				-1-	45	-1-					
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41	_	50				55		_	_		60							
43	ttt c	aa cac	gaa	gat	cta	att	gga	aag	tgt	cat	gct	ttt	gat	gga	acg		240	
44	Phe G	In His	Glu	Asp	Leu	Ile	Gly	Lys	Cys	His	Ala	Phe	Asp	Gly	Thr			
	65				70					75					80			
47	ata t	ta ttt	tta	cct	aaa	aga	cta	cag	caa	aag	gtt	act	gaa	gtt	ttt		288	
48	Ile L	eu Phe	Leu	${\tt Pro}$	Lys	Arg	Leu	Gln	Gln	Lys	Val	Thr	Glu	Val	Phe			
49				85					90					95				
		ag acc															336	
52	Ser L	ys Thr	Arg	Asn	Gly	Glu	Asp	Val	Arg	Ile	Thr	Ile	Thr	Leu	Thr			
53			100					105					110					
	_	aa ctt							_	_	_						384	
		lu Leu	Pro	Pro	Thr	Ser		Thr	Cys	Leu	Gln		Tyr	Asn	Ile			
57		115					120					125						
59	att t	tc agg	aqq	ctt	ttg	aaa	atc	atg	aat	ttq	caa	caa	att	qqa	cga		432	

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Input Set : A:\02-0013.st25.txt

60 61	Ile	Phe 130	Arg	Arg	Leu	Leu	Lys 135		Met	Asn	Leu	Gln 140	Gln	Ile	Gly	Arg	•	
63	aat	tat	tat	aac	cca	aat	gac	cca	att	gat	at.t.	cca	agt	cac	aσσ	t.t.a		480
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	145	111	1 7 1	non	110	150	пор	110	110	1101	155	110	001	1110	**** 9	160		
													+-+			-		E 2 0
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68	Val	He	Trp	Pro	GTA	Phe	Thr	Thr	Ser		Leu	GIn	Tyr	Glu		ser		
69					165			,		170					175			
71	atc	atg	ctc	tgc	act	gac	gtt	agc	cat	aaa	gtc	ctt	cga	agt	gag	act		576
72	Ile	Met	Leu	Cys	Thr	Asp	Val	Ser	His	Lys	Val	Leu	Arg	Ser	Glu	Thr		
73				180					185					190				
75	.a.t.t	tta	gat	ttc	atq	ttc.	aac	ttt	tat	cat	caq	aca	gaa	gaa	cat	aaa		624
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77			195					200	-1-				205					
	+++	<b>722</b>		022	att	tac	222		ota	ata	aat	tta	gtt	att	ctt	acc		672
			-		_			-					Val	-				0 / 2
	PHE		GIU	GIII	Val	ser	_	GIU	ьец	116	Gry		Val	Val	пеп	1111		
81	,	210					215			:		220						700
													gac					720
	-	Tyr	Asn	Asn	Lys		Tyr	Arg	Val	Asp	-	Ile	Asp	Trp	Asp			
	225					230					235					240		
87	aat	ccc	aag	agc	acc	ttt	aag	aaa	gcc	gac	ggc	tct	gaa	gtc	agc	ttc		768
88	Asn	Pro	Lys	Ser	Thr	Phe	Lys	Lys	Ala	Asp	Gly	Ser	Glu	Val	Ser	Phe		
89					245					250					255			
91	tta	gaa	tac	tac	agg	aaσ	caa	tac	aac	caa	gag	atc	acc	gac	tta	aaq		816
		_				_							Thr	-	-			
93			-1-	260	5	-1-		-1-	265					270				
	саσ	cct	atc		atc	age	cad	CCC		аσа	agg	caa	ggc		aaa	ααα		864
													Gly					004
97	GIII	FIO	275	цец	Val	Ser	Gin	280	цуз	ліч	arg	Arg	285	rio	GLY	GLY		
																		010
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101		290					295					300						
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104	Gly	Leu	Thr	Asp	Lys	Met	. Arg	Asn	Asp	Phe	. Asn	val	. Met	. Lys	: Asp	Leu		
105	305		•			310	)				315	,				320		
107	gcc	gtt	cat	aca	aga	cta	act	cca	gag	caa	agg	cag	, cgt	gaa	gtg	gga		1008
108	Ala	Val	His	Thr	Arg	Leu	Thr	Pro	Glu	Gln	Arg	Gln	Arg	Glu	Val	Gly		
109					325					330	_		_		335	_		
111	саа	ctc	att	gat	tac	att	cat	aaa	aac	qat	aat	att	caa	aqq	gag	ctt		1056
													Gln					
113	-			340				-1-	345					350				
		αac	taa			ало	+++	σat			tta	cto	tcc			σσα		1104
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		vəħ	355		nea	. 2 <del>c</del> 1	F.116	360		นอม	. neu	. <b></b> cu	365		. 261	GTÅ		
117		_ 4								<b>~</b>		<b>~</b>						1150
													aaa					1152
				GIn	Thr	Glu	_		His	GIn	GLY		Lys	Thr	Phe	Asp		
121		370					375					380						
													aga					1200
124	Tyr	Asn	Pro	Gln	Phe	Ala	Asp	Trp	Ser	Lys	Glu	Thr	Arg	Gly	Ala	Pro		

## RAW SEQUENCE LISTING

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Input Set : A:\02-0013.st25.txt

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	12	28 L	eu I	le	Ser	Va:	l Ly	s Pr	O L	eu i	Asp	Ası	n Tr	כי מר	Len	T.e	.ya T	ים ום	Lat Tur	. ac	g co	ja –	1	248
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	13	31 a	ga a	at	tat	gaa	a gc	a go	c a	at 1	tca	tto	g at	a (	caa	aa	t ci	ta 1	-++		-			
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	13	5 ac	ca c	ca	gcc	atg	g gg	c at	g c	aa a	ıtg	aga	a aa	a	aca	at.	a at				. ~+	~	-	244
	13	6 Th	ır P	ro i	Ala	Met	: Gl	у Ме	t G	ln M	ſet	Arc	ı Ly	s I	Ala	Τl	e Me	-9 c s+ 1	110	Cl	1 yı	.g	1	344
	13	9 ga	t g	ac a	aga	act	gaa	a gc	c ta	ac t	ta	aga	qt	c t	ta	cas		-	аσ	at a		_	-	200
	14	U As	-	- <u>r</u>	Arg	Thr	Glu	ı Al	a Ty	r L	eu	Arq	, Va	1 1	Leu	Gli	n G1	n T	.ve	Val	mh.	a ∽	Τ.	392
	14	3 gc	a ga	ac a	icc	cag	ata	a gt	t gt	c t	gt	ctg	tt	a t	ca			t 0	aa	220	~~	_	-	
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	14	/aa	a tạ	ac g	at	gct	att	aaa	a aa	a t	ac	ctq	ta	t a	ca	gat	- ta	c c	c+	200	401	0	•	
	14	з ГА	s Ty	r A	sp	Ala	Ile	Lys	з Гу	s T	yr	Leu	Cys	s T	hr	Ast	Cv	e D	ro	Thr	Dwa	<b>.</b>	14	88
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	104	se:	r GI	n C			Val	Ala	ı Ar	g T	hr	Leu	Gly	L	vs	Gln	Gl	n Tri	hr	Val	Mot	-	10	36
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	157	AL	3 TT			Thr	Lys	Ile	Al	a Le	eu (	Gln	Met	Α.	sn	Cys	Lv	s Me	- <del>-</del> -	Glv	61v	L 7	13	84
	160	gag	Ct	c t	gg a	agg	gtg	gac	at	c cc	cc o	ctg	aag	ct	tc (	qtq	ato	rat	-C	att	aac	1	16	2.2
	161	GIC	ιье	u T	rp A	Arg	Val	Asp	11	e Pr	:o ]	Leu	Lys	Le	eu ¹	Val	Met	. 11	e	Val	Glv		10	J Z
	164	Tlo	ya Na	ב בי	ים דע	cac	cat	gac	ate	g ac	a	gct	ggg	C	gg a	agg	tca	at	c (	qca	ασа		16	នក
		545		p C	ys 1	yr	His	пор	Met	Th	ır P	Ala	Gly	Aı	rg A	Arg	Ser	11	e i	Ala	Glv		10.	00
	168	Dha	y Li	ו או	o a	igc	atc	aat	gaa	ιgg	g a	itg	acc	cg	jc t	tgg	ttc	to	a	cqc	tac	•	172	28
•	169	1 110	va.	LAJ	la S			Asn	Glu	ı Gl	y M	ſet	Thr	Ar	g 1	ľrp	Phe	Se	r A	Arq	Cvs			
	172	Tle	Dhe	. 61	19 9 20 10	at	aga 1	gga Glv	cag	ga	g c	tg	gta	ga	t g	<b>J</b> gg	ctc	aa	a c	jtc	tqc		177	76
	173		1 110	- 61		.sp 7	Arg	Gly	GIn	GI	uг	eu	Val	Αs	рG	3ly	Leu	Ly	s V	/al	Cys		,	
	176	Len	Gln	. 9C	99	7 n 1	rou	agg	gct	tg	ga	at a	agc	tg	c a	at	gag	ta	са	ıtg	ccc		182	4
	177		OIL	59	а л 5	ıa ı	Leu	Arg	Ата	TI	рΑ	sn :	Ser	Су	s A	sn	Glu	Ty:	r M	let	Pro			-
	180	Ser	Ara	T1	с и <sub>В</sub> Т	י סו	7 - 1	tac	ege	gai	c g	gc q	gta	gg	a g	ac	ggc	cag	gc	tg :	aaa		187	2
	181		610		C 1.	16 ,	/ a ı	Tyr	LT A	AS	G.	TÀ A	Val	Gl	у А	sp	Gly	Glr	ı L	eu :	Lys			
	184	Thr	Leu	Va	, αι ] Δα	ים ב מחיד	ur /	gaa	y cg vai	CCa	Ca	ag t	itt	tt	g g	at	tgt	cta	a	aa 1	cc		192	0
	185				_ 210	1	· 1 - ·	Glu 630	vdI	PIC	G.	ın F	ne	Lei	ı A:	sp	Cys	Leu	L	ys S	Ser			
1	188	Ile	Ğĺv	Arc	- 35 G1	v m	vr 7	aac	Dra	aya	Ct	ca a	ıcg	gta	a at	tt (	gtg	gtg	a	ag a	aa		196	8
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RAW SEQUENCE LISTING DATE: 06/17/2002 PATENT APPLICATION: US/10/043,774B TIME: 14:44:59

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	Arg																
19:	_			660	_				665		_			670			
19	cca	ctt	cct	gga	aca	gtt	att	gat	gta	gag	gtt	acc	aga	cca	gaa	tgg	2064
190	Pro	Leu	Pro	Gly	Thr	Val	Ile	Asp	Val	Glu	Val	Thr	Arg	Pro	Glu	Trp	
197	,		675	_				680					685				
199	tat	gac	ttt	ttt	atc	gtg	agc	cag	gct	gtg	aga	agt	ggt	agt	gtt	tct	2112
200	) Tyr	Asp	Phe	Phe	Tle	Val	Ser	Gln	Ala	Val	Arg	Ser	Gly	Ser	Val	Ser	
20	_	690					695					700					
203	ccc	aca	cat	tac	aat	gtc	atc	tat	gac	aac	agc	ggc	ctg	aag	cca	gac	2160
204	Pro	Thr	His	Tyr	Asn	Val	Ile	Tyr	Asp	Asn	Ser	Gly	Leu	Lys	Pro	Asp	
20	705					710					715					720	
20	cac	ata	cag	cgc	ttg	acc	tac	aag	ctg	tgc	cac	atc	tat	tac	aac	tgg	2208
208	His	Ile	Gln	Arg	Leu	Thr	Tyr	Lys	Leu	Cys	His	Ile	Tyr	Tyr	Asn	Trp	
209	)				725					730					735		
	cca																2256
212	? Pro	Gly	Val	Ile	Arg	Val	Pro	Ala	Pro	Cys	Gln	Tyr	Ala	His	Lys	Leu	
213		•		740					745					750			
	gct																2304
216	Ala	Phe	Leu	Val	Gly	Gln	Ser	Ile	His	Arg	Glu	Pro	Asn	Leu	Ser	Leu	
21	<b>,</b>		755					.760					765				
219	) tca	aac	cgc	ctt	tac	tac	ctc	taa									2328
220	) Ser		Arg	Leu	Tyr	Tyr											
22:		770					775										
224	<21	0> SI	EO II	ON C	. 🤈												
22	<21	1> LI	ENGTI	H: 77													
225 226	<21: <21:	1> LI 2> TY	ENGTI YPE:	H: 77	75												
225 226 227	<21: <21: <21:	1> LI 2> TY 3> OI	ENGTI YPE: RGANI	H: 77 PRT ISM:	75 Homo	o sag	piens	5									
225 226 227 229	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 9 &lt;400</pre>	1> LI 2> TY 3> OI 0> SI	ENGTI YPE: RGANI EQUEI	H: 77 PRT ISM: NCE:	75 Homo 2							•	** * -	**- 1	•		
225 226 227 229 231	<pre>6 &lt;213 6 &lt;213 7 &lt;213 9 &lt;400 Met</pre>	1> LI 2> TY 3> OI 0> SI	ENGTI YPE: RGANI EQUEI	H: 77 PRT ISM: NCE:	75 Homo 2				Gln		Leu	Asp	His	Val		Glu	
225 226 227 229 231 231	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 9 &lt;400 Met 1</pre>	1> LI 2> TY 3> OI 0> SI Ile	ENGTI YPE: RGANI EQUEI Phe	H: 77 PRT ISM: NCE: Gly	75 Homo 2 Val 5	Asn	Thr	Arg		10					15		
225 226 227 229 231 231 231	<pre>&lt;21 &lt;21 &lt;21 &lt;21 &lt;40 Met 1 Ser</pre>	1> LI 2> TY 3> OI 0> SI Ile	ENGTI YPE: RGANI EQUEI Phe	H: 77 PRT ISM: NCE: Gly Gly	75 Homo 2 Val 5	Asn	Thr	Arg	Ile	10				Thr	15		
225 226 227 229 231 232 235 236	<21: <21: <21: <40: Met : 1 : Ser	1> LH 2> TY 3> OH 0> SH Ile Lys	ENGTI YPE: RGANI EQUEN Phe Thr	H: 77 PRT ISM: NCE: Gly Gly 20	Homo 2 Val 5 Ser	Asn Ser	Thr Gly	Arg Ile	Ile 25	10 Val	Arg	Leu	Ser	Thr 30	15 Asn	His	
225 226 227 232 232 233 235 236 239	<21: <21: <21: <40: Met 1 Ser	1> LH 2> TY 3> OH 0> SH Ile Lys	ENGTI YPE: RGAN: EQUEN Phe Thr	H: 77 PRT ISM: NCE: Gly Gly 20	Homo 2 Val 5 Ser	Asn Ser	Thr Gly	Arg Ile Gln	Ile 25	10 Val	Arg	Leu	Ser Gln	Thr 30	15 Asn	His	
225 226 227 225 231 232 235 236 236 240	<pre>3 &lt;21 5 &lt;21 7 &lt;21 9 &lt;400 9 Met 1 1 9 Ser 9 Phe</pre>	1> LH 2> TY 3> OH 0> SH Ile Lys	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35	H: 77 PRT ISM: NCE: Gly Gly 20 Thr	Homo 2 Val 5 Ser Ser	Asn Ser Arg	Thr Gly Pro	Arg Ile Gln 40	Ile 25 Trp	10 Val Ala	Arg Leu	Leu Tyr	Ser Gln 45	Thr 30 Tyr	15 Asn His	His Ile	
225 226 227 225 235 235 235 236 240 243	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 9 &lt;400 Met 1</pre>	1> LH 2> TY 3> OH 0> SH 1le Lys Arg	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35	H: 77 PRT ISM: NCE: Gly Gly 20 Thr	Homo 2 Val 5 Ser Ser	Asn Ser Arg	Thr Gly Pro Glu	Arg Ile Gln 40	Ile 25 Trp	10 Val Ala	Arg Leu	Leu Tyr Arg	Ser Gln 45	Thr 30 Tyr	15 Asn His	His	
225 226 227 225 235 235 236 236 240 244 244	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 9 &lt;400 Met 1 Ser 9 Phe 6 Asp</pre>	1> LH 2> TY 3> OH 0> SH 1le Lys Arg Tyr 50	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn	H: 77 PRT ISM: NCE: Gly Gly 20 Thr	Homo 2 Val 5 Ser Ser	Asn Ser Arg Met	Thr Gly Pro Glu 55	Arg Ile Gln 40 Ala	Ile 25 Trp Arg	10 Val Ala Arg	Arg Leu Leu	Leu Tyr Arg 60	Ser Gln 45 Ser	Thr 30 Tyr Ala	15 Asn His Leu	His Ile Leu	
225 226 227 232 232 233 235 240 243 244 244	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 9 &lt;400 Met 1</pre>	1> LH 2> TY 3> OH 0> SH 1le Lys Arg Tyr 50	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn	H: 77 PRT ISM: NCE: Gly Gly 20 Thr	Homo 2 Val 5 Ser Ser	Asn Ser Arg Met Leu	Thr Gly Pro Glu 55	Arg Ile Gln 40 Ala	Ile 25 Trp Arg	10 Val Ala Arg	Arg Leu Leu His	Leu Tyr Arg 60	Ser Gln 45 Ser	Thr 30 Tyr Ala	15 Asn His Leu	His Ile Leu	
225 226 227 232 232 233 235 240 244 244 244 244	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 9 &lt;400 Met 1 Ser 9 Phe 1 Asp 7 Phe 1 65</pre>	1> LH 2> TY 3> OH 0> SH 1le Lys Arg Tyr 50 Gln	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn	H: 77 PRT ISM: NCE: Gly Gly 20 Thr Pro	Homo 2 Val 5 Ser Ser Leu Asp	Asn Ser Arg Met Leu 70	Thr Gly Pro Glu 55 Ile	Arg Ile Gln 40 Ala	Ile 25 Trp Arg Lys	10 Val Ala Arg Cys	Arg Leu Leu His 75	Leu Tyr Arg 60 Ala	Ser Gln 45 Ser Phe	Thr 30 Tyr Ala Asp	15 Asn His Leu Gly	His Ile Leu Thr 80	
225 226 227 235 235 236 236 246 247 248 248 248 251	<pre>6 &lt;21: 6 &lt;21: 7 &lt;21: 7 &lt;21: 9 &lt;400 Met 1</pre>	1> LH 2> TY 3> OH 0> SH 1le Lys Arg Tyr 50 Gln	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn	H: 77 PRT ISM: NCE: Gly Gly 20 Thr Pro	Homo 2 Val 5 Ser Ser Leu Asp	Asn Ser Arg Met Leu 70	Thr Gly Pro Glu 55 Ile	Arg Ile Gln 40 Ala	Ile 25 Trp Arg Lys	10 Val Ala Arg Cys Gln	Arg Leu Leu His 75	Leu Tyr Arg 60 Ala	Ser Gln 45 Ser Phe	Thr 30 Tyr Ala Asp	15 Asn His Leu Gly Val	His Ile Leu Thr 80	
225 226 227 235 235 236 236 246 247 248 248 251 252	<pre>3 &lt;21: 5 &lt;21: 6 &lt;21: 7 &lt;21: 9 &lt;400 Met 1 Ser 9 Phe 6 Asp Phe 6 65 Ile</pre>	1> LH 2> TY 3> OH 0> SH Ile Lys Arg Tyr 50 Gln	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn His	H: 77 PRT ISM: NCE: Gly Gly 20 Thr Pro Glu Leu	Homo 2 Val 5 Ser Ser Leu Asp	Asn Ser Arg Met Leu 70 Lys	Thr Gly Pro Glu 55 Ile Arg	Arg Ile Gln 40 Ala Gly Leu	Ile 25 Trp Arg Lys Gln	10 Val Ala Arg Cys Gln 90	Arg Leu Leu His 75 Lys	Leu Tyr Arg 60 Ala	Ser Gln 45 Ser Phe Thr	Thr 30 Tyr Ala Asp Glu	15 Asn His Leu Gly Val 95	His Ile Leu Thr 80 Phe	
225 226 227 237 237 238 238 240 243 244 245 255 255	<pre>3 &lt;21: 5 &lt;21: 5 &lt;21: 7 &lt;21: 9 &lt;400 Met 1 Ser 9 Phe 6 Asp Phe 6 5 Ile 5 Ser</pre>	1> LH 2> TY 3> OH 0> SH Ile Lys Arg Tyr 50 Gln	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn His	H: 77 PRT ISM: ISM: Gly 20 Thr Pro Glu Leu Arg	Homo 2 Val 5 Ser Ser Leu Asp	Asn Ser Arg Met Leu 70 Lys	Thr Gly Pro Glu 55 Ile Arg	Arg Ile Gln 40 Ala Gly Leu	Ile 25 Trp Arg Lys Gln Val	10 Val Ala Arg Cys Gln 90	Arg Leu Leu His 75 Lys	Leu Tyr Arg 60 Ala	Ser Gln 45 Ser Phe Thr	Thr 30 Tyr Ala Asp Glu Thr	15 Asn His Leu Gly Val 95	His Ile Leu Thr 80 Phe	
225 226 227 237 237 238 238 240 243 244 245 255 256	<pre>3 &lt;21: 5 &lt;21: 5 &lt;21: 6 &lt;400     Met 1    Ser 6    Phe 6    Asp Phe 6    Fhe 6    Ser 7    Ser 7    Ser 8    Ser 9    Phe 7    Ser 8    Ser 9    Ser</pre>	1> LH 2> TY 3> OH 0> SH 11e Lys Arg Tyr 50 Gln Leu	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn His Phe	H: 77 PRT ISM: NCE: Gly Gly 20 Thr Pro Glu Leu Arg 100	Homo 2 Val 5 Ser Ser Leu Asp Pro 85 Asn	Asn Ser Arg Met Leu 70 Lys Gly	Thr Gly Pro Glu 55 Ile Arg Glu	Arg Ile Gln 40 Ala Gly Leu Asp	Ile 25 Trp Arg Lys Gln Val 105	10 Val Ala Arg Cys Gln 90 Arg	Arg Leu Leu His 75 Lys Ile	Leu Tyr Arg 60 Ala Val	Ser Gln 45 Ser Phe Thr	Thr 30 Tyr Ala Asp Glu Thr 110	15 Asn His Leu Gly Val 95 Leu	His Ile Leu Thr 80 Phe	
225 226 227 232 232 233 235 246 244 244 245 255 256 256 256	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 7 &lt;400     Met 1    Ser 9    Phe 6    Asp 7</pre>	1> LH 2> TY 3> OH 0> SH 11e Lys Arg Tyr 50 Gln Leu	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn His Phe	H: 77 PRT ISM: NCE: Gly Gly 20 Thr Pro Glu Leu Arg 100	Homo 2 Val 5 Ser Ser Leu Asp Pro 85 Asn	Asn Ser Arg Met Leu 70 Lys Gly	Thr Gly Pro Glu 55 Ile Arg Glu	Arg Ile Gln 40 Ala Gly Leu Asp Pro	Ile 25 Trp Arg Lys Gln Val 105	10 Val Ala Arg Cys Gln 90 Arg	Arg Leu Leu His 75 Lys Ile	Leu Tyr Arg 60 Ala Val	Ser Gln 45 Ser Phe Thr	Thr 30 Tyr Ala Asp Glu Thr 110	15 Asn His Leu Gly Val 95 Leu	His Ile Leu Thr 80 Phe	
225 226 227 232 232 233 233 234 244 244 245 255 255 256 256	<pre>3 &lt;21: 5 &lt;21: 7 &lt;21: 7 &lt;400 Met 1 Ser 9 Phe 6 65 1 Ile 5 Ser 6 Asn 6 Asn 6 Asn 7 Asn</pre>	1> LH 2> TY 3> OH 0> SH 11e Lys Arg Tyr 50 Gln Leu Lys	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn His Phe Thr Leu 115	H: 7: PRT ISM: ISM: Gly Gly 20 Thr Pro Glu Leu Arg 100 Pro	Homo 2 Val 5 Ser Ser Leu Asp Pro 85 Asn	Asn Ser Arg Met Leu 70 Lys Gly Thr	Thr Gly Pro Glu 55 Ile Arg Glu Ser	Arg Ile Gln 40 Ala Gly Leu Asp Pro 120	Ile 25 Trp Arg Lys Gln Val 105 Thr	10 Val Ala Arg Cys Gln 90 Arg	Arg Leu His 75 Lys Ile Leu	Leu Tyr Arg 60 Ala Val Thr	Ser Gln 45 Ser Phe Thr Ile Phe 125	Thr 30 Tyr Ala Asp Glu Thr 110 Tyr	15 Asn His Leu Gly Val 95 Leu Asn	His Ile Leu Thr 80 Phe Thr	
225 226 227 232 232 233 233 234 244 244 245 255 255 256 256	<pre>3 &lt;21: 5 &lt;21: 6 &lt;21: 7 &lt;21: 7 &lt;400 Met 1</pre>	1> LH 2> TY 3> OH 0> SH 11e Lys Arg Tyr 50 Gln Leu Lys	ENGTH YPE: RGANI EQUEN Phe Thr Leu 35 Asn His Phe Thr Leu 115	H: 7: PRT ISM: ISM: Gly Gly 20 Thr Pro Glu Leu Arg 100 Pro	Homo 2 Val 5 Ser Ser Leu Asp Pro 85 Asn	Asn Ser Arg Met Leu 70 Lys Gly Thr	Thr Gly Pro Glu 55 Ile Arg Glu Ser	Arg Ile Gln 40 Ala Gly Leu Asp Pro 120	Ile 25 Trp Arg Lys Gln Val 105 Thr	10 Val Ala Arg Cys Gln 90 Arg	Arg Leu His 75 Lys Ile Leu	Leu Tyr Arg 60 Ala Val Thr	Ser Gln 45 Ser Phe Thr Ile Phe 125	Thr 30 Tyr Ala Asp Glu Thr 110 Tyr	15 Asn His Leu Gly Val 95 Leu Asn	His Ile Leu Thr 80 Phe Thr	
225 226 227 237 237 238 238 240 244 247 257 257 258 259 260 264	<pre></pre>	1> LI 2> TY 3> OF 0> SF 11e Lys Arg Tyr 50 Gln Leu Lys Glu Phe 130	ENGTH YPE: RGANI RGANI Phe Thr Leu 35 Asn His Phe Thr Leu 115 Arg	H: 7: PRT ISM: ISM: Gly Gly 20 Thr Pro Glu Leu Arg 100 Pro	Homo 2 Val 5 Ser Ser Leu Asp Pro 85 Asn Pro	Asn Ser Arg Met Leu 70 Lys Gly Thr Leu	Thr Gly Pro Glu 55 Ile Arg Glu Ser Lys 135	Arg Ile Gln 40 Ala Gly Leu Asp Pro 120 Ile	Ile 25 Trp Arg Lys Gln Val 105 Thr	10 Val Ala Arg Cys Gln 90 Arg Cys	Arg Leu His 75 Lys Ile Leu Leu	Leu Tyr Arg 60 Ala Val Thr Gln Gln 140	Ser Gln 45 Ser Phe Thr Ile Phe 125 Gln	Thr 30 Tyr Ala Asp Glu Thr 110 Tyr	15 Asn His Leu Gly Val 95 Leu Asn	His Ile Leu Thr 80 Phe Thr Ile Arg	
225 226 227 237 237 238 238 240 244 244 245 255 256 266 267 267	<pre>3 &lt;21: 5 &lt;21: 6 &lt;21: 7 &lt;21: 7 &lt;400 Met 1</pre>	1> LI 2> TY 3> OF 0> SF 11e Lys Arg Tyr 50 Gln Leu Lys Glu Phe 130	ENGTH YPE: RGANI RGANI Phe Thr Leu 35 Asn His Phe Thr Leu 115 Arg	H: 7: PRT ISM: ISM: Gly Gly 20 Thr Pro Glu Leu Arg 100 Pro	Homo 2 Val 5 Ser Ser Leu Asp Pro 85 Asn Pro	Asn Ser Arg Met Leu 70 Lys Gly Thr Leu	Thr Gly Pro Glu 55 Ile Arg Glu Ser Lys 135	Arg Ile Gln 40 Ala Gly Leu Asp Pro 120 Ile	Ile 25 Trp Arg Lys Gln Val 105 Thr	10 Val Ala Arg Cys Gln 90 Arg Cys	Arg Leu His 75 Lys Ile Leu Leu	Leu Tyr Arg 60 Ala Val Thr Gln Gln 140	Ser Gln 45 Ser Phe Thr Ile Phe 125 Gln	Thr 30 Tyr Ala Asp Glu Thr 110 Tyr	15 Asn His Leu Gly Val 95 Leu Asn	His Ile Leu Thr 80 Phe Thr Ile Arg	

RAW SEQUENCE LISTING DATE: 06/17/2002 PATENT APPLICATION: US/10/043,774B TIME: 14:44:59

Input Set : A:\02-0013.st25.txt

271 272	Val	Ile	Trp	Pro	Gly 165	Phe	Thr	Thr	Ser	Ile 170	Leu	Gln	Tyr	Glu	Asn 175	Ser
	Ile	Met	Leu	Cys 180		Asp	Val	Ser	His 185		Val	Leu	Arg	Ser 190		Thr
279	Val	Leu	_		Met	Phe	Asn			His	Gln	Thr			His	Lys
280 283	Phe	Gln	195 Glu	Gln	Val	Ser	Lvs	200 Glu	Leu	Ile	Glv	Leu	205 Val	Val	Leu	Thr
284		210					215					220				
	Lys 225	Tyr	Asn	Asn	Lys	Thr 230	Tyr	Arg	Val	Asp	Asp 235	Ile	Asp	Trp	Asp	Gln 240
	Asn	Pro	Lys	Ser		Phe	Lys	Lys	Ala	Asp	Gly	Ser	Glu	Val	Ser	Phe
292	_	, _ <b>-</b>		_	245	_	_ •	_	_	250			_,	_	255	_
295 296	Leu	Glu	Tyr	Tyr 260	Arg	Lys	GIn	Tyr	Asn 265	GIn	GIu	Ile	Thr	Asp 270	Leu	Lys
299 300	Gln	Pro	Val 275	Leu	Val	Ser	Gln	Pro 280	Lys	Arg	Arg	Arg	Gly 285	Pro	Gly	Gly
	Thr	Leu		Glv	Pro	Ala	Met		Tle	Pro	Glu	Leu		Tvr	Leu	Thr
304		290		_			295					300	_	_		
	_	Leu	Thr	Asp	Lys		Arg	Asn	Asp	Phe		Val	Met	Lys	Asp	Leu
	305	17. 7	*** -	m	3	310	mh	D	G1	<b>01</b> =	315	<b>~1</b> ~	7	<b>~1.</b> ,	17 n 3	320
311	Ala	vaı	HIS	Thr	325	Leu	Thr	PIO	GIU	330	Arg	GIN	Arg	GIU	335	GIY
	Arg	Leu	Ile	Asp		Ile	His	Lys	Asn		Asn	Val	Gln	Arg	Glu	Leu
316				340	_			_	345					350		
	Arg	Asp	_	Gly	Leu	Ser	Phe	_	Ser	Asn	Leu	Leu		Phe	Ser	Gly
320	Arg	T1.0	355	C1 n	mbs	C1	T *** G	360	mi a	Cln	C1	C1	365	mh∽	Dho	λαη
323	Arg	370	neu	GIII	1111	GIU	375	TIE	птэ	GIII	GIY	380	цур	1111	rne	кър
	Tyr		Pro	Gln	Phe	Ala		Trp	Ser	Lys	Glu		Arg	Gly	Ala	Pro
	385					390					395					400
	Leu	Ile	Ser	Val		Pro	Leu	Asp	Asn		Leu		Ile	Tyr		Arg
332	7	N a n	m	C1	405	λ1 a	A an	Com	T 011	410	Cln	Nan	T 011	Dhò	415	1751
336	Arg	ASII	ıyı	420	АІА	міа	ASII	ser	425	116	GIII	ASII	Leu	430	гур	Vai
	Thr	Pro	Ala		Gly	Met	Gln	Met		Lys	Ala	Ile	Met		Glu	Val
340	Asp		435			•		440					445			
	Asp		Arg	Thr	Glu	Ala		Leu	Arg	Val	Leu		Gln	Lys	Val	Thr
344		450		- 1	-1.	1	455	<b>-</b>			~	460		<b>.</b>	•	•
	Ala 465	Asp	Thr	Gin	TTE	vai 470	vaı	Cys	Leu	Leu	ser 475	ser	Asn	Arg	ьуs	480
	Lys	T1.25	λan	λ1 a	T10		Two	Mazz-	Τ Ο 11	Cuc		λcn	Cvc	Dro	Thr	
352	цуб	TAT	ASP	Ата	485	пур	пуз	ıyı	Leu	490	1111	кър	Cys	PIO	495	FIU
	Ser	Gln	Cys	Val		Ala	Arq	Thr	Leu		Lys	Gln	Gln	Thr		Met
356			-	500			-		505	-	_			510		
	Ala	Ile		Thr	Lys	Ile	Ala		Gln	Met	Asn	Cys	_	Met	Gly	Gly
360	<b>~</b> 3	_	515	_		•	<b>~</b> 7	520	• -		<b>.</b> .	••- •	525	~ 7	•••	<b>a</b> 1
	Glu	Leu 530	Trp	Arg	vaı	ASP	11e 535	Pro	Leu	гÀг	ьeu	Val 540	met	тте	vaı	GIA
364 367	Ile		Cys	Tyr	His	Asp		Thr	Ala	Gly	Arg		Ser	Ile	Ala	Gly
		-	-	-		-				-	-	-				

VERIFICATION SUMMARY

DATE: 06/17/2002 TIME: 14:45:00

PATENT APPLICATION: US/10/043,774B

Input Set : A:\02-0013.st25.txt

Output Set: N:\CRF3\06172002\J043774B.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date